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PHILIP MORRIS MANAGEMENT CORP.
LAW DEPT.—PATENT SECTION

JAN 22 1993

NOTED _____

Mr. Heikichi Odajima
Odajima Patent Office
Nippon Jitensha Building
9015, 1-Chome, Akasaka
Minato-ku, Tokyo
JAPAN

Re: Right-to-Use Search on Behalf of
Philip Morris
Our File: PM-1706

Dear Mr. Odajima:

Philip Morris has asked us to perform a search for Japanese patents (or utility models) that might be infringed by the cigarette filter described below. Products including the filter are scheduled to be introduced in Japan in February, so the search should be conducted before the end of January, and preferably sooner.

The cigarette filter to be searched is a filter having a cylindrical core of web or sheet material that has been corrugated, gathered and wrapped in a plug wrap material to form a cylinder. The filter also has an outer annular layer, surrounding the core, made of conventional cellulose acetate filter material.

The core has a pressure drop (resistance-to-draw) of between about 285 mm W.G. (water gauge) and about 500 mm W.G., with the overall filter having a pressure drop of between about 115 mm W.G. and about 225 mm W.G. Preferably, the core has a pressure drop of between about 135 mm W.G. and about 146 mm W.G., while the overall filter has a

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pressure drop between about 370 mm W.G. and about 400 mm W.G.

The filter may also include a second filter plug at the mouth end having a pressure drop of between about 10 mm W.G. and about 45 mm W.G., in which case the pressure drop of the overall filter including both segments should be between about 100 mm W.G. and about 180 mm W.G. Preferably, the second filter plug has a pressure drop of about 18 mm W.G., with the overall filter having a pressure drop of about 159 mm W.G.

The filter is ventilated at about 50% to about 70%, preferably about 67%.

Finally, the core of the filter is loaded with carbon particles which are dropped onto the corrugated web before it is gathered and wrapped. The size of the particles is such that 94% of the particles are between 20 mesh and 70 mesh. The carbon particles comprise between about 15.5% and about 20.5% moisture based on the dry weight of the particles, and preferably about 18%. The carbon particles have CCL4 activity between about 50% and about 60%, preferably about 55%. Each filter comprises between about 5 mg an about 35 mg of carbon particles, preferably about 10 mg.

The filter reduces HCN in the smoke gas phase by about 85% and reduces RCHO by about 86%. About 17% of the reduction is attributable to the carbon particles.

Very truly yours,

JEFFREY H. INGERMAN

JHI:bas

Jeffrey H. Ingerman

cc: James E. Schardt, Esq. [Fax - Conf. by Mail]

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